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PT 510.01: Applied Clinical Anatomy and Kinesiology

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PT 510 - APPLIED CLINICAL ANATOMY AND KINESIOLOGY
(Fall Semester, 2008)

I. Course Description: Anatomy and kinesiology of the neuromusculoskeletal system in relation to movement, function and clinical correlates. Includes radiology and cadaver study.

II. Credits: Total = 5, Lecture = 4 Credits, Clock Hours = 54
Lab = 1 Credit, Clock Hours = 26 (See separate outline)

III. Class Meets: MF - 10:10-11:00, SB 114
W - 10:10-12:00, SB 114
Review: Fridays 11:10-12:00

IV. Professor: Rich Gajdosik, Office SB 103
Phone: (W) 243-5183/4753 Lab: 243-4015

V. Course Objectives: See separate handout

VI. Required Textbooks:

1. Moore KL: Clinically Oriented Anatomy, 4th Ed., Williams and Wilkins, Baltimore, MD, 1992
2. Atlas of Human Anatomy by Frank Netter
3. Dorland's Illustrated Medical Dictionary (or Comparable Curricular Text)

VII. Course Requirements, Examinations and Grading Procedures:

- 1) Midterm Written Exam - 100 Points (Includes Radiology and Cadaver)
- 2) Final Written Exam - 200 Points (Includes Radiology and Cadaver)

300 Points Total

Grades will be based on the total percentage of points:

90-100% = A
80- 89% = B
70- 79% = C
60- 69% = D
< 60% = F

Note: Any deviations from normal testing or special accommodations for learning and/or test taking must be requested within 3 weeks from the first day of class, or by September 17, 2008. A second opportunity to take a test that was not past at the first offering will not apply to this course. This means you have one opportunity to sit for each of the 2 exams.

VIII. Teaching methods and learning experiences: Lectures and demonstrations with the use of Power Point presentations, overhead projections and models, and the use of films, quizzes, tests, questions and answers, and independent study (primary method of learning). Radiology and cadaver study.

IX. ACADEMIC HONESTY: All students must practice academic honesty. Academic misconduct is subject to an academic penalty by the course instructor and/or a disciplinary sanction by the University.

All students should be familiar with the University of Montana Student Conduct Code. The Code is available for review online at <http://www.umt.edu/SA/VPSA/index.cfm/page/1321>

X. Course Content Schedule: Reference readings from KL Moore (5th Ed)

Orientation to PT 510

Skeletal Muscle Anatomy and Physiology; Towards the understanding of the Interaction of Mechanical and Physiological phenomena. (Background reading pp 2-72)

Spinal Column and Musculature (pp 478-553)

Vertebral Canal and Contents (pp 478-553 cont.)

Thoracic Cage and Pectoral Region, The Anterior Abdominal Wall (pp 77-112, 194-230)

Axilla, Shoulder Girdle, Shoulder Muscles, Associated Nerves (pp 726-784)

Flexor and Extensor Compartments of Arm, Shoulder Joint, Flexor Surface of Forearm and Hand (pp 784-806)

Palm, Extensor Surface of Forearm and Hand: Joints of Elbow, Wrist, Hand (pp 806-884)

MIDTERM EXAM: Scheduled about here

Pelvis Osteology and Applied Clinical Anatomy: Anterior, Lateral, and Medial Aspects of Thigh (pp 555-589)

Gluteal Region, Hip, Posterior Thigh, Popliteal Fossa, Posterior Compartment of Leg and the Knee Joint (pp 589-657)

Anterior and Lateral Compartment of Leg, Dorsal Surface of Foot, Plantar Surface of Foot, Ankle Joint (pp 636-724)

FINAL EXAM: Scheduled for Monday, Dec 8th, 8-11 AM (Note: Please plan ahead to be successful on this final exam). Note that the final exam starts at the top of the hour, not 10 minutes after the hour.

Laboratory Schedule

Week Number (Dates): **Thursday Lab in Dissection Laboratory, SB 050**
10:10-11:30 AM or 11:40-1:00 PM

- (Aug 28) Onsite orientation to Anatomy Lab (SB 050) 10:10 or 10:50 AM
- 1 (Sept 4) Back Muscles associated with the Upper Limb
- 2 (Sept 11) Breathing muscles & muscles of the back proper
- 3 (Sept 18) Spinal cord & Suboccipital triangle
- 4 (Sept 25) Pectoral region, breast & anterior abdominal wall
- 5 (Oct 2) Deltoid & Scapular region
- 6 (Oct 9) Axilla & brachium
- 7 (Oct 16) Antebrachium
- 8 (Oct 23) The Hand
- 9 (Oct 30) Posterior abdominal wall & thigh (ant, lat, med)
- 10 (Nov 6) Gluteal region & posterior thigh
- 11 (Nov 13) Knee & Leg
- 12 (Nov 20) The Foot
- (Nov 27) Thanksgiving Day Holiday
- 13 (Dec 4) Review and Verbal Quizzing

Note: Attendance for all classes is mandatory. Students are normally not allowed more than two class days of excused absences (Emergencies do occur also). Not attending classes regularly, or missing more than 2 class days without justification may be grounds for not passing the course.